

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01320

Farm name: Whipkey
LOCATION: Elevation: 1,474
District: Cameron

Operator Well No.: 1H
Quadrangle: Cameron
County: Marshall

Latitude: 400 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 7,570 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren E. Bagley
Inspector: Bill Hendershot
Date Permit Issued: 10/9/2009
Date Well Work Commenced: 11/17/2009
Date Well Work Completed: 4/7/2010
Verbal Plugging: N/A
Date Permission Granted On: N/A

Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 7,010'
Total Measured Depth (ft.): 10,684'
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 1,003
Void(s) Encountered (N/Y)? N Depth: N/A

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
13 3/8"	419'	419'	Surface
9 5/8"	2561'	2561'	Surface
5 1/2"	10,684'	10,684'	4,700

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WV Department of
Environmental Protection

1ST PRODUCING FORMATION: MARCELLUS PAY ZONE DEPTH (FT.): 7,025

GAS:

INITIAL OPEN FLOW: 2,500 MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: 3,400 psig (surface pressure) after HOURS

OIL:

INITIAL OPEN FLOW: 1.70 Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: psig (surface pressure) after HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:

INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: psig (surface pressure) after HOURS

OIL:

INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: psig (surface pressure) after HOURS

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: TRANS ENERGY, INC

Signature: W. F. Woodburn
Name (Printed): William F. Woodburn
Date: 10/31/11

51-01320

API#: 47-051-01320

Were cuttings caught during drilling? Yes X No

X

Electrical
Mechanical
Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

TOTAL WATER: 99,434 BBL; TOTAL SAND: 4,927,260 LB

10,480 x 10,641	35 Holes
10,277 x 10,416	35 Holes
10,218 x 10,041	35 Holes
9,820 x 10,008	37 Holes
9,580 x 9,750	37 Holes
9,351 x 9,542	37 Holes
9,055 x 9,264	37 Holes
8,785 x 8,996	37 Holes
8,501 x 8,708	37 Holes
8,238 x 8,452	37 Holes
7,933 x 8,155	37 Holes
7,572 x 7,840	36 Holes

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01321

Farm name: Whipkey
LOCATION: Elevation: 1,474
District: Cameron

Operator Well No.: 2H
Quadrangle: Cameron
County: Marshall

Latitude: 430 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 7,570 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren Bagley
Inspector: Bill Hendershot
Date Permit Issued: 10/9/2009
Date Well Work Commenced: 12/10/2009
Date Well Work Completed: 2/12/2010
Verbal Plugging: N/A
Date Permission Granted On: N/A

Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 7,083
Total Measured Depth (ft.): 11,215
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 1,003
Void(s) Encountered (N/Y)? N Depth: N/A

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
20"	50'	50'	Surface
13 3/8"	400'	400'	Surface
9 5/8"	2,550'	2,550'	Surface
5 1/2"	11,210'	11,210'	4,700

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1ST PRODUCING FORMATION: MARCELLUS OPEN FLOW DATA PAY ZONE DEPTH (FT.): 7,042

GAS:
INITIAL OPEN FLOW: 5,600 MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: 3,700 psig (surface pressure) after HOURS

OIL:
INITIAL OPEN FLOW: 7.60 Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:
INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

OIL:
INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: TRANS ENERGY, INC

Signature: William F. Woodburn
Name (Printed): William F. Woodburn
Date: 10/31/11

51-01321

API#: 47-051-01321

Were cuttings caught during drilling? Yes X No

<u>X</u>	Electrical
<u> </u>	Mechanical
<u> </u>	Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

TOTAL WATER: 139,718 BBL:	TOTAL SAND: 6,995,137 LB
----------------------------------	---------------------------------

10,943 x 11,073	18 HOLES
10,756 x 10,895	38 HOLES
10,576 x 10,702	35 HOLES
10,386 x 10,522	37 HOLES
10,206 x 10,329	39 HOLES
9,990 x 10,150	38 HOLES
9,752 x 9,939	38 HOLES
9,560 x 9,700	31 HOLES
9,200 x 9,469	38 HOLES
9,050 x 9,237	38 HOLES
8,796 x 9001	38 HOLES
8,002 x 8,746	32 HOLES
8,280 x 8,501	38 HOLES
8,026 x 8,231	38 HOLES
7,782 x 7,972	38 HOLES
7,446 x 7,711	35 HOLES

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01333

Farm name: Whiskey
LOCATION: Elevation: 1,474'
District: Cameron

Operator Well No.: 3H
Quadrangle: Cameron
County: Marshall

Latitude: 460 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 7,550 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren Bagley
Inspector: Bill Hendershot
Date Permit Issued: 12/11/2009
Date Well Work Commenced: 5/4/2011
Date Well Work Completed: 6/2/2011
Verbal Plugging: N/A
Date Permission Granted On: N/A
Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 7,038'
Total Measured Depth (ft.): 11,212'
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 1,003
Void(s) Encountered (N/Y)? N Depth: N/A

Casing Tubing Diameter	Used In Drilling	Left in Well	Cement Fill
20 "	40 '	40 '	Surface
13 "	1,113 '	1,113 '	Surface
9 5/8 "	2,990 '	2,990 '	Surface
5 1/2 "	11,210 '	11,210 '	3,500

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OPEN FLOW DATA

1ST PRODUCING FORMATION: MARCELLUS PAY ZONE DEPTH (FT.): 7,045

GAS:

INITIAL OPEN FLOW: 5,100 MCF/d
FINAL OPEN FLOW: MCF/d

OIL:

INITIAL OPEN FLOW: 5.90 Bbl/d
FINAL OPEN FLOW: Bbl/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: psig (surface pressure) after

 HOURS
 HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:

INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d

OIL:

INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: 3,650 psig (surface pressure) after

 HOURS
 HOURS

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Company Name: TRANS ENERGY, INC

Signature: W. F. Woodburn

Name (Printed): William F. Woodburn

Date: 10/31/11

51-01333

API#: 47-051-01333

Were cuttings caught during drilling? Yes X No

X	Electrical
	Mechanical
	Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

TOTAL WATER: 145,077 BBL	TOTAL SAND: 6,572,758 LB
11,145 x 11,146 - 9 holes;	11,084 x 11,085 - 8 holes;
10,852 x 10,853 - 9 holes;	10,780 x 10,781 - 8 holes;
10,545 x 10,546 - 9 holes;	10,485 - 10,486 - 8 holes;
10,270 x 10,271 - 9 holes;	10,230 x 10,231 - 8 holes;
10,020 x 10,021 - 9 holes;	9,985 x 9,986 - 8 holes;
9,770 x 9,771 - 9 holes;	9,725 x 9,726 - 8 holes;
9,487 x 9,488 - 9 holes;	9,445 x 9,446 - 8 holes;
9,235 x 9,236 - 9 holes;	9,190 x 9,191 - 8 holes;
8,955 x 8,956 - 9 holes;	8,903 x 8,904 - 8 holes;
8,710 x 8,711 - 9 holes;	8,655 x 8,656 - 8 holes;
8,420 x 8,421 - 9 holes;	8,340 x 8,341 - 8 holes;
8,135 x 8,136 - 9 holes;	8,085 x 8,086 - 8 holes;
7,852 x 7,853 - 9 holes;	7,814 x 7,815 - 8 holes;
7,570 x 7,571 - 7 holes;	7,530 x 7,531 - 7 holes;
7,310 x 7,311 - 5 holes.	

[illegible]

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01352

Farm name: **Stout**
LOCATION: Elevation: 1,204'
District: **Cameron**

Operator Well No.: **2H**
Quadrangle: **Cameron**
County: **Marshall**

Latitude: 3,310 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 750 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: **TRANS ENERGY, INC.**
Address: **P. O. Box 393**
St. Marys, WV 26170

Agent: **Loren Bagley**
Inspector: **Bill Hendershot**
Date Permit Issued: **6/10/2010**
Date Well Work Commenced: **8/21/2010**
Date Well Work Completed: **9/24/2010**
Verbal Plugging: **N/A**
Date Permission Granted On: **N/A**

Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): **6,875**
Total Measured Depth (ft.): **11,250**
Is coal being mined in area (N/Y)? **Y**
Coal Depths (ft.): **719**
Void(s) Encountered (N/Y)? **N** Depth:

Casing Tubing Diameter	Used In Drilling	Left In Well	Cement Fill
20"	40'	40'	Surface
13 3/8"	759'	759'	Surface
9 5/8"	2,989'	2,989'	Surface
5 1/2"	11250'	11250'	4,500

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1ST PRODUCING FORMATION: **MARCELLUS** PAY ZONE DEPTH (FT.): **6,807**

GAS:
INITIAL OPEN FLOW: **6,900 MCF/d**
FINAL OPEN FLOW: **MCF/d**
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: **4,100** psig (surface pressure) after

OIL:
INITIAL OPEN FLOW: **2.70 Bbl/d**
FINAL OPEN FLOW: **Bbl/d**
HOURS
HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:
INITIAL OPEN FLOW: **MCF/d**
FINAL OPEN FLOW: **MCF/d**
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: psig (surface pressure) after

OIL:
INITIAL OPEN FLOW: **Bbl/d**
FINAL OPEN FLOW: **Bbl/d**
HOURS
HOURS

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: **TRANS ENERGY, INC**

Signature: *W. F. Woodburn*
Name (Printed): **William F. Woodburn**
Date: 10/31/11

51-01352

API#: 47-051-01352

Were cuttings caught during drilling? Yes X No

<u>X</u>	Electrical
<u></u>	Mechanical
<u></u>	Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

TOTAL WATER: 127,819 BBL; TOTAL SAND: 5,622,749 LB

10,700 x 10,932 - 35 holes;

10,344 x 10,644 - 35 holes;

10.001 x 10.269 - 35 holes;

9,634 x 9,928 - 35 holes;

9,248 x 9,458 - 35 holes;

8,846 x 9,142 - 35 holes;

8,480 x 8,743 - 35 holes;

8,080 x 8,481 - 35 holes;

7,630 x 7,981 - 35 holes;

7.230 x 7.546 – 35 holes.

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TRANS ENERGY INC.

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01370

Farm name: Keaton
LOCATION: Elevation: 1,272'
District: Cameron

Operator Well No.: 1H
Quadrangle: Cameron
County: Marshall

Latitude: 400 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 7,570 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren Bagley
Inspector: Bill Hendershot
Date Permit Issued: 7/7/2010
Date Well Work Commenced: 11/7/2010
Date Well Work Completed: 12/25/2010
Verbal Plugging: N/A
Date Permission Granted On: N/A
Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 6,932
Total Measured Depth (ft.): 11,901
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 839
Void(s) Encountered (N/Y)? N Depth: N/A

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
20"	50'	50'	Surface
13 3/8"	970'	970'	Surface
9 5/8"	2,997'	2,997'	Surface
5.5"	11,901'	11,901'	4,700

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1ST PRODUCING FORMATION: MARCELLUS OPEN FLOW DATA PAY ZONE DEPTH (FT.): 6,559

GAS:

INITIAL OPEN FLOW: 7,000 MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: 4,250 psig (surface pressure) after HOURS

OIL:

INITIAL OPEN FLOW: 15.20 Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:

INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

OIL:

INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: psig (surface pressure) after HOURS

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: TRANS ENERGY, INC

Signature: William F. Woodburn
Name (Printed): William F. Woodburn
Date: 10/31/11

SUPPLEMENTAL DATA

WELL NAME: Keaton 1H

API#: 47-051-01370

51-01370

Were core samples taken? Yes No X

Were cuttings caught during drilling? Yes X No

Were logs recorded on this well? Y/N Y

X	Electrical
	Mechanical
	Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING:

- 1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
- 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing or Stimulating:

TOTAL WATER: 135,019 BBL; TOTAL SAND: 6,187,149 LB.

11.852 x 11.621 - 41 holes; 11.244 x 11.524 - 41 holes; 10.875 x 11.161 - 41 holes; 10.480 x 10.770 - 41 holes;

10,380 x 10,381 - 41 holes; 10,300 x 10,301 - 41 holes; 10,225 x 10,226 - 41 holes; 10,143 x 10,144 - 41 holes;

10,050 x 10,051 - 41 holes; 9,950 x 9,951 - 41 holes; 9,872 x 9,872 - 41 holes; 9,790 x 9,791 - 41 holes;

9,717 x 9,718 - 41 holes; 9,637 x 9,638 - 41 holes; 9,540 x 9,541 - 41 holes; 9,460 x 9,461 - 41 holes;

9.380 x 9.381 - 41 holes: 9.316 x 9.317 - 41 holes: 9.242 x 9.243 - 41 holes: 9.140 x 9.142 - 41 holes:

9.060 x 9.061 - 41 holes: 8.984 x 8.985 - 41 holes: 8.910 x 8.911 - 41 holes: 8.806 x 8.807 - 41 holes:

8.720 x 8.721 - 41 holes; 8.640 x 8.641 - 41 holes; 8.555 x 8.556 - 41 holes; 8.480 x 8.481 - 41 holes;

8,406 x 8,407 - 41 holes; 8,323 x 8,324 - 41 holes; 8,265 x 8,266 - 41 holes; 8,190 x 8,191 - 41 holes;

8,135 x 8,136 - 41 holes; 8,050 x 8,051 - 41 holes; 7,950 x 7,951 - 41 holes; 7,855 x 7,856 - 41 holes;

7,770 x 7,771 - 41 holes; 7,700 x 7,701 - 41 holes; 7,613 x 7,014 - 41 holes; 7,202 x 7,358 - 41 holes.

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01371

Farm name: Groves
LOCATION: Elevation: 1416'
District: Webster

Operator Well No.: 1H
Quadrangle: Cameron
County: Marshall

Latitude: 13.370 Feet South of 39 Deg. 55 Min. 00 Sec.
Longitude: 2.630 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren Bagley
Inspector: Bill Hendershot
Date Permit Issued: 7/7/2010
Date Well Work Commenced: 9/27/2010
Date Well Work Completed: 10/30/2010
Verbal Plugging: N/A
Date Permission Granted On: N/A
Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 7,019
Total Measured Depth (ft.): 12,490
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 967
Void(s) Encountered (N/Y)? N Depth: N/A

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
20"	50'	50'	
13 3/8 "	1078'	1078'	
9 5/8 "	3035'	3035'	
5.5"	12485'	12485'	

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OPEN FLOW DATA

1ST PRODUCING FORMATION: MARCELLUS PAY ZONE DEPTH (FT.): 6,940

GAS:

INITIAL OPEN FLOW: 5,700 MCF/d
FINAL OPEN FLOW: MCF/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: 3,850 psig (surface pressure) after

OIL:

INITIAL OPEN FLOW: 17.20 Bbl/d
FINAL OPEN FLOW: Bbl/d

HOURS
HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

GAS:

INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: psig (surface pressure) after

OIL:

INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d

HOURS
HOURS

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Company Name: TRANS ENERGY, INC

Signature: W. F. Woodburn
Name (Printed): William F. Woodburn
Date: 10/31/11

51-01371

API#: 47-051-01371

Were cuttings caught during drilling? Yes X No

<u>X</u>	Electrical
<u></u>	Mechanical
<u></u>	Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

2.) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

TOTAL WATER: 180,660 BBL: TOTAL SAND: 4,516,877 LB

12,427 x 12,428 - 9 holes; 12,352 x 12,353 - 9 holes; 12,272 x 12,273 - 8 holes; 12,208 x 12,209 - 8 holes;
12,082 x 12,083 - 9 holes; 12,017 x 12,018 - 9 holes; 11,943 x 11,944 - 8 holes; 11,860 x 11,861 - 8 holes;
11,790 x 11,791 - 7 holes; 11,700 x 11,701 - 9 holes; 11,605 x 11,606 - 9 holes; 11,545 x 11,546 - 8 holes;
11,485 x 11,486 - 8 holes; 11,410 x 11,411 - 9 holes; 11,301 x 11,302 - 9 holes; 11,227 x 11,228 - 8 holes;
11,127 x 11,118 - 8 holes; 11,020 x 11,021 - 9 holes; 10,935 x 10,936 - 9 holes; 10,840 x 10,841 - 8 holes;
10,743 x 10,744 - 8 holes; 10,640 x 10,641 - 9 holes; 10,550 x 10,551 - 9 holes; 10,475 x 10,476 - 8 holes;
10,403 x 10,404 - 8 holes; 10,310 x 10,311 - 9 holes; 10,230 x 10,231 - 9 holes; 10,150 x 10,151 - 8 holes;
10,075 x 10,076 - 8 holes; 9,970 x 9,971 - 9 holes; 9,885 x 9,886 - 9 holes; 9,820 x 9,821 - 8 holes; 9,750 x 9,751 - 8 holes;
9,685 x 9,686 - 7 holes; 9,585 x 9,586 - 9 holes; 9,510 x 9,511 - 9 holes; 9,445 x 9,446 - 8 holes; 9,379 x 9,380 - 8 holes;
9,290 x 9,291 - 9 holes; 9,220 x 9,221 - 9 holes; 9,160 x 9,161 - 8 holes; 9,083 x 9,084 - 8 holes; 9,000 x 9,001 - 7 holes;
8,910 x 8,911 - 9 holes; 8,797 x 8,798 - 9 holes; 8,740 x 8,741 - 8 holes; 8,645 x 8,646 - 8 holes; 8,548 x 8,549 - 9 holes;
8,460 x 8,461 - 9 holes; 8,400 x 8,401 - 8 holes; 8,360 x 8,361 - 8 holes; 8,285 x 8,286 - 7 holes; 8,180 x 8,181 - 9 holes;
8,115 x 8,116 - 9 holes; 8,050 x 8,051 - 8 holes; 7,960 x 7,961 - 8 holes; 7,901 x 7,902 - 7 holes; 7,795 x 7,796 - 9 holes;
7,730 x 7,731 - 9 holes; 7,662 x 7,663 - 8 holes; 7,591 x 7,592 - 8 holes; 7,510 x 7,511 - 7 holes; 7,413 x 7,414 - 8 holes;
7,353 x 7,354 - 8 holes; 7,280 x 7,281 - 7 holes; 7,212 x 7,213 - 7 holes; 7,102 x 7,103 - 6 holes;

[illegible]

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10/31/11
API#: 47-051-01382

Farm name: Lucey
LOCATION: Elevation: 1296'
District: Cameron

Operator Well No.: 1H
Quadrangle: Cameron
County: Marshall

Latitude: 9,150' Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude: 14,160 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.
Address: P. O. Box 393
St. Marys, WV 26170

Agent: Loren Bagley
Inspector: Bill Hendershot
Date Permit Issued: 10/9/2009
Date Well Work Commenced: 1/5/2011
Date Well Work Completed: 2/16/2011
Verbal Plugging: N/A
Date Permission Granted On: N/A

Drill Type: X Rotary Cable Rig
Total Vertical Dept (ft.): 6,733
Total Measured Depth (ft.): 11,268
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 876
Void(s) Encountered (N/Y)? N Depth:

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
26"	80'	80	Surface
16"	1,000'	1,000	Surface
13 3/8"	1291'	1,291	Surface
9 5/8"	2992'	2,992	Surface
5 1/2"	11268'	11,268	Surface

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OPEN FLOW DATA

1ST PRODUCING FORMATION:

MARCELLUS

PAY ZONE DEPTH (FT.): 6,779

GAS:

INITIAL OPEN FLOW: 4,000 MCF/d
FINAL OPEN FLOW: MCF/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: 3,500 psig (surface pressure) after

OIL:

INITIAL OPEN FLOW: 25.60 Bbl/d
FINAL OPEN FLOW: Bbl/d

.. HOURS
HOURS

2ND PRODUCING FORMATION:

PAY ZONE DEPTH (FT.):

GAS:

INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d

TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:

Static Rock Pressure: psig (surface pressure) after

OIL:

INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d

HOURS
HOURS

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: TRANS ENERGY, INC

Signature: W. F. Woodburn

Name (Printed): William F. Woodburn

Date: 10/31/11

51-01382

API#: 47-051-01382

Were cuttings caught during drilling? Yes X No

<u>X</u>	Electrical
<u></u>	Mechanical
<u></u>	Geophysical

1.) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforated Intervals, Fracturing or Stimulating:

10,921 X 11,222 - 40 holes; 10,843 x 10,844 - 41 holes; 10,788 x 10,789 - 41 holes; 10,719 x 10,720 - 41 holes;

10,653 x 10,654 - 41 holes; 10,590 x 10,591 - 41 holes; 10,506 x 10,507 - 41 holes; 10,453 x 10,454 - 41 holes;

10,375 x 10,376 - 41 holes; 10,336 x 10,337 - 41 holes; 10,270 x 10,271 - 41 holes; 10,171 x 10,172 - 41 holes;

10.090 x 10.091 - 41 holes: 10.015 x 10.016 - 41 holes: 9.965 x 9.966 - 41 holes: 9.885 x 9.886 - 41 holes:

9.780 x 9.781 - 38 holes: 9.730 x 9.731 - 38 holes: 9.730 x 9.731 - 38 holes: 9.588 x 9.589 - 38 holes:

9.490 x 9.491 - 41 holes: 9.445 x 9.446 - 41holes: 9.360 x 9.361 - 41 holes: 9.290 x 9.291 - 41 holes:

9.252 x 9.253 - 41 holes: 9.163 x 9.164 - 41 holes: 9.065 x 9.066 - 41 holes: 9.013 x 9.014 - 41 holes:

8 960 x 8 961 - 41 holes: 8 905 x 8 906 - 41 holes: 8 810 x 8 811 - 41 holes: 8 745 x 8 746 - 41 holes:

8 675 x 8 676 - 41 holes: 8 600 x 8 601 - 41 holes: 8 558 x 8 559 - 41 holes: 8 464 x 8 465 - 41 holes:

8 402 x 8 403 - 41 holes: 8 340 x 8 341 - 41 holes: 8 265 x 8 266 - 41 holes: 8 190 x 8 191 - 41 holes:

8 110 x 8 111 - 41 holes: 8 020 x 8 021 - 41 holes: 7 955 x 7 956 - 41 holes: 7 870 x 7 871 - 41 holes:

7 804 x 7 805 - 41 holes: 7 740 x 7 741 - 41 holes: 7 670 x 7 671 - 41 holes: 7 600 x 7 601 - 41 holes:

7 510 x 7 511 - 41 holes: 7 455 x 7 456 - 41 holes: 7 388 x 7 389 - 37 holes: 7 310 x 7 311 - 37 holes:

7.260 x 7.261 - 37 holes: 7.180 x 7.181 - 37 holes: 7.130 x 7.131 - 37 holes:

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TRANS ENERGY INC.

WR-35
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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 12/29/2011
API #: 47-6101622

Farm name: Enrout Properties, LLC Operator Well No.: MIP 4H

LOCATION: Elevation: 1,130' Quadrangle: Morgantown South

District: Grant County: Monongalia
Latitude: 8280 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude 5090 Feet West of 79 Deg. 57 Min. 30 Sec.

Company: Northeast Natural Energy LLC

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
707 Virginia Street East, Suite 1400 Charleston, WV 25301	20"	41'	41'	to surface
Agent: John D. Adams	13 3/8"	479'	479'	to surface
Inspector: Sam Ward	9 5/8"	1,558'	1,558'	to surface
Date Permit Issued: March 10, 2011	5 1/2"	11,452'	11,453'	to surface
Date Well Work Commenced: May 9, 2011				
Date Well Work Completed: July 4, 2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>				
Total Vertical Depth (ft): 7,414'				
Total Measured Depth (ft): 11,473'				
Fresh Water Depth (ft.): 50, 450				
Salt Water Depth (ft.): NA				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 200, 225				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Shale Pay zone depth (ft) 7,460

Gas: Initial open flow 4,204 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 4,022 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 25 Hours

Static rock Pressure 2425 psig (surface pressure) after 6 Hours

Second producing formation N/A Pay zone depth (ft) N/A

Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow N/A MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests N/A Hours

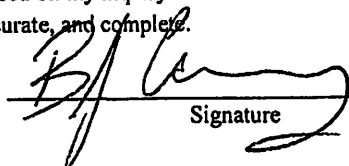
Static rock Pressure N/A psig (surface pressure) after N/A Hours

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Environmental Protection**

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

12/29/11
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list triple combo

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stg 1: 11,093'-11,333'; 377,939 gal; 399,888 lbs; 80.6 bpm	Stg 7: 8,993'-9,273'; 376,007 gal; 400,695 lbs; 81.1 bpm
Stg 2: 10,743'-11,023'; 377,645 gal; 402,652 lbs; 81.1 bpm	Stg 8: 8,643'-8,923'; 375,671 gal; 404,725 lbs; 82.4 bpm
Stg 3: 10,393'-10,708'; 377,309 gal; 405,246 lbs; 80.5 bpm	Stg 9: 8,293'-8,573'; 375,377 gal; 406,282 lbs; 81.1 bpm
Stg 4: 10,043'-10,323'; 376,973 gal; 404,182 lbs; 80.9 bpm	Stg 10: 7,943'-8,223'; 374,999 gal; 402,038 lbs; 81.8 bpm
Stg 5: 9,693'-9,973'; 376,679 gal; 406,458 lbs; 80.0 bpm	Stg 11: 7,593'-7,873'; 374,705 gal; 421,676 lbs; 81.5 bpm
Stg 6: 9,343'-9,623'; 376,343 gal; 400,758 lbs; 81.2 bpm	

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
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Shale/Sand 0-1850 *Top from surface to Balltown are from the mudlog

Gordon Stray 1850-1900

Sand/Shale 1900-2200

Gordon 2200-2250

Sand/Shale 2250-2900

Speechley 2900-3100

Sand/Shale 3100-3200

Balltown 3200-3400

Sand/shale 3400-4900

Shale 4900-7180

Geneseo 7180-7200 *Top from Geneseo to TD are from open hole log

Tully 7200-7300

Hamilton 7300-7460

Marcellus 7460-7560

Onondaga 7560-TD

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 12/29/2011
API #: 47-061-01624

Farm name: Enrout Properties, LLC Operator Well No.: MIP 6H

LOCATION: Elevation: 1,130' Quadrangle: Morgantown South

District: Grant County: Monongalia
Latitude: 8300 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude 5080 Feet West of 79 Deg. 57 Min. 30 Sec.

Company: Northeast Natural Energy, LLC

Address:	707 Virginia Street East, Suite 1400	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
	Charleston, WV 25301	20"	40'	40'	to surface
Agent:	John D. Adams	13 3/8"	481'	481'	to surface
Inspector:	Sam Ward	9 5/8"	1,781'	1,781'	to surface
Date Permit Issued:	March 23, 2011	5.5"	10,240'	10,240'	to surface
Date Well Work Commenced:	July 7, 2011				
Date Well Work Completed:	August 10, 2011				
Verbal Plugging:					
Date Permission granted on:					
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input checked="" type="checkbox"/>					
Total Vertical Depth (ft):	7,488'				
Total Measured Depth (ft):	10,250'				
Fresh Water Depth (ft.):	50' and 450'				
Salt Water Depth (ft.):	NA				
Is coal being mined in area (N/Y)?	N				
Coal Depths (ft.):	200' and 225'				
Void(s) encountered (N/Y) Depth(s)	N				

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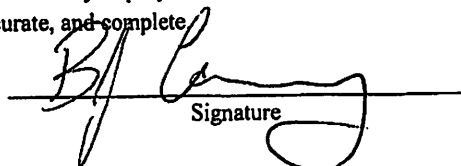
WV Department of
Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Shale Pay zone depth (ft) 7,460
Gas: Initial open flow 2,234 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 1,895 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 25 Hours
Static rock Pressure 1900 psig (surface pressure) after 6 Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

12/29/11
Date

Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Stage 1: 9,935'-10,175'; 376,847 gal; 400,588 lbs; 81.9 bpm	Stage 6: 8,435'-8,675'; 375,461 gal; 403,447 lbs; 81.1 bpm
Stage 2: 9,635'-9,875'; 376,553 gal; 399,644 lbs; 81.9 bpm	Stage 7: 8,135'-8,375'; 375,167 gal; 406,061 lbs; 81.3 bpm
Stage 3: 9,335'-9,575'; 376,301 gal; 400,379 lbs; 80.6 bpm	Stage 8: 7,835'-8,075'; 374,915 gal; 401,413 lbs; 80.7 bpm
Stage 4: 9,035'-9,300'; 376,007 gal; 405,625 lbs; 81.4 bpm	
Stage 5: 8,735'-8,975'; 375,713 gal; 405,138 lbs; 82.5 bpm	

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:	Top Depth	/	Bottom Depth
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Shale/Sand 0-1850

Gordon Stray 1850-1900

Sand/Shale 1900-2200

Gordon 2200-2250

Sand/Shale 2250-2900

Speechley 2900-3100

Sand/Shale 3100-3200

Balltown 3200-3400

Sand/shale 3400-4900

Shale 4900-7180

Geneseo 7180-7200

Tully 7200-7300

Hamilton 7300-7460

Marcellus 7460-7560

Onondaga 7560-TD

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WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 9-12-12
API #: 47-93-00105 **D**

Farm name: Nine, Junior Operator Well No.: Nine #1

LOCATION: Elevation: 2223' Quadrangle: Saint George

District: Saint George County: Tucker
Latitude: 14190 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 9000 Feet West of 79 Deg. 37 Min. 30 Sec.

Company: Saga Petroleum, LLC of Colorado

Address: <u>600 17th Street, Suite 1700N</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Denver, Colorado 80202</u>	<u>13.375"</u>	<u>40'</u>	<u>40'</u>	<u>Sanded</u>
Agent: <u>Paul Smith</u>	<u>9.625" J-55</u>	<u>170'</u>	<u>170'</u>	<u>122 SX</u>
Inspector: <u>Bryan Harris</u>	<u>7" J-55</u>	<u>1022'</u>	<u>1022'</u>	<u>150SX</u>
Date Permit Issued: <u>5-14-2010</u>	<u>4.5 p-110</u>		<u>5554'</u>	<u>TOC 3220'</u>
Date Well Work Commenced: <u>6-02-2010</u>				
Date Well Work Completed: <u>7-30-2010</u>				
Verbal Plugging:				
Date Permission granted on: <u>5-25-2010</u>				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): <u>5554</u>				
Total Measured Depth (ft): <u>5554</u>				
Fresh Water Depth (ft.): <u>None</u>				
Salt Water Depth (ft.): <u>None</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>None</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

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Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Lower Marcellus Shale Pay zone depth (ft) 5517-5526

Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 986 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 72 Hours

Static rock Pressure 1850 psig (surface pressure) after 72 Hours

Second producing formation Upper Marcellus Shale Pay zone depth (ft) 5406-5448

Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 144 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 72 Hours

Static rock Pressure 1600 psig (surface pressure) after 72 Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

9-12-2012
Date

93-001050

Were core samples taken? Yes _____ No ☒Were cuttings caught during drilling? Yes ☒ No _____Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Electrical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

5517-5526 w/37 holes, 5530-5534 w/9 holes, Broke down with 1000 gals. 15% HCL, slick water fraced with 16,762 Bbls., 2,216 sx 80/100 mesh sand, 3,515 sx 40/70 mesh sand, avg rate 64 BPM.

5406-5448 w/70 holes, Broke down with 1000 gals. 15% HCL acid, slick water fraced with 17,415 Bbls., 2,050 sx 80/100 mesh sand, 2,080 sx 40/70 mesh sand, 1,130 sx 30/50 mesh sand, avg rate 65 BPM.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered:

Top Depth

/

Bottom Depth

Surface:

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Siltstone	0-450	
Benson Sandstone	450-467	
Siltstone/Shale	467-1102	
Alexander Sands	1102-1292	
Greenland Gap formation	1292-1750	
Sherr formation	1750-2100	
Braillier formation	2100-3619	
Elk Sand	3619-3750	
Grey Shale	3750-4568	reverse fault @ 4200'
Harrell Shale	4568-4608	
Tulley Limestone	4608-4642	
Mahantango formation	4642-5187	
Grey Shale	5187-5432	
Purcell Limestone	5432-5512	
Marcellus Shale	5512-5534	Onondaga Limestone 5534-5554 TD